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	Application No.	Applicant(s)	Ø,
Al-Al-Allawahilika	09/942,718	SHIRAI ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Delma R. Flores Ruiz	2828	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to <u>1/26/2004</u> .			
2. The allowed claim(s) is/are <u>1-3,5 - 7, 9 - 13, 15 - 18</u> .			
3. The drawings filed on <u>07 February 2003</u> are accepted by the Examiner.			
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority documents have Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE"	e been received. e been received in Application No cuments have been received in this	s national stage applic	
noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") mus (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1)	son's Patent Drawing Review(PTC . s Amendment / Comment or in the .84(c)) should be written on the draw	Office action of ings in the front (not the	e back) of
each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
Attachment(s) 1. Notice of References Cited (PTO-892)	5. Notice of Informal	• • • • • • • • • • • • • • • • • • • •	⁻ O-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	y (PTO-413),	
 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date 8/31/2001 4. ☐ Examiner's Comment Regarding Requirement for Deposit 	Paper No./Mail Da 08), 7. ☐ Examiner's Amend 8. ☑ Examiner's Statem	lment/Comment	owance
of Biological Material	9. Other		
Don Wong Supervisory Patent Exemine Technology Center 2800	er		

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DETAILED ACTION

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance: claims 1, 5 and 11 recites a module for optical communication structure including the specific structure limitation of semiconductor laser active region having a multiple-quantum well structure having at least two quaternary mixed crystal layers in which a band offset of a communication band is larger than a bans offset of a valence electron band, said at least two quaternary mixed crystal layer benign selected from the group consisting of quaternary mixed compound of In, Ga, Al and As and of quaternary mixed compound of In, Ga, N and As wherein a temperature of a semiconductor laser active region or a temperature of a component in thermal contact with the semiconductor laser active region for holding the temperature of the semiconductor laser active region in set to 35°C of higher during operation of the semiconductor laser active region and the optical modulation region which is neither anticipated nor obvious over the prior art of record.

Claim 2-3, 6-7, 9-10, 12-13 and 16-18 has been found allowable due to their dependency on claims 1, 5 and 11.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reason for Allowance".

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Delma R. Flores Ruiz whose telephone number is (571) 272-1940. The examiner can normally be reached on M - F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) -272-1834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

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For more information about the PAIR system, see http://pair-direct.uspto.gov.

Should you have questions on access to the Private PAIR system, contact the

Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Delma R. Flores Ruiz

Examiner Art Unit 2828

DRFR/DW June 25, 2004 Don Wong Supervisor Patent Examiner

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